

Result No.	Score	Query #		Length	DB	ID	Description
		Match					
1	111.2	61.1	168	4	US-09-351-123-5		Sequence 5, Appl
2	89.6	49.2	171	1	US-08-217-360-16		Sequence 16, Appl
3	86.4	47.5	129	2	US-08-189-256A-25		Sequence 25, Appl
4	86.4	47.5	129	3	US-09-193-853-25		Sequence 25, Appl
5	86	47.3	140	2	US-08-189-256A-19		Sequence 19, Appl
6	86	47.3	140	3	US-09-193-853-19		Sequence 19, Appl
7	86	47.3	164	2	US-08-189-256A-26		Sequence 26, Appl
8	86	47.3	164	3	US-09-193-853-26		Sequence 26, Appl
9	85.8	47.1	127	4	US-09-635-132-16		Sequence 16, Appl
10	85.8	47.1	201	4	US-09-011-336-58		Sequence 58, Appl
11	85.4	46.9	161	2	US-08-189-256A-18		Sequence 18, Appl
12	85.4	46.9	161	3	US-09-193-853-18		Sequence 18, Appl
13	85.4	46.9	165	2	US-08-189-256A-4		Sequence 4, Appl
14	85.4	46.9	165	3	US-09-193-853-4		Sequence 4, Appl
15	85.4	46.9	168	2	US-08-189-256A-2		Sequence 2, Appl
16	85.4	46.9	168	3	US-09-193-853-2		Sequence 2, Appl
17	85.4	46.9	184	3	US-08-283-419-3		Sequence 3, Appl
18	85.4	46.9	258	2	US-08-189-256A-24		Sequence 24, Appl
19	85.4	46.9	258	3	US-09-193-853-24		Sequence 24, Appl
20	85.4	46.9	300	3	US-09-202-316-4		Sequence 4, Appl
21	85.4	46.9	300	3	US-09-022-316-7		Sequence 7, Appl
C 22	85.4	46.9	1134	2	US-08-189-256A-10		Sequence 10, Appl
C 23	85.4	46.9	1134	3	US-09-193-853-10		Sequence 10, Appl
C 24	85.4	46.9	1143	3	US-09-142-114B-6		Sequence 6, Appl
25	85.4	46.9	1208	2	US-08-189-256A-28		Sequence 28, Appl
26	85.4	46.9	1208	3	US-09-193-853-28		Sequence 28, Appl
27	85.4	46.9	1416	2	US-08-189-256A-27		Sequence 27, Appl


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/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/193,853
/ FILING DATE: 25-AUG-1993
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/518,763
/ FILING DATE: 01-MAY-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Reed, Janet E.
/ REGISTRATION NUMBER: 36,252
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (215) 563-4100
/ TELEFAX: (215) 563-4044
/ INFORMATION FOR SEQ ID NO: 25:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 129 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ US-09-193-853-25

Query Match 47.5%; Score 86.4; DB 3; Length 129;
Best Local Similarity 89.4%; Pred. No. 3.3e-20;
Matches 93; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGAGATGAGAGCTCGTGGGATTGACGTAGGGGG 66
Db 6 GCTCCCCCGCGTTCATGAGATGAGATGAGAGCTCGTGGGATTGACGTAGGGGG 65

QY 67 CAGGATGGCTATATTCTCGGAGGAGACACACCGTTTCC 110
Db 66 CAGGATGGCTATATTCTCGGAGGAGAACTCCGGCGGAATTTC 109

RESULT 5
US-08-189-256A-19
/ Sequence 19, Application US/08/189256A
/ Patent No. 5877402
/ GENERAL INFORMATION:
/ APPLICANT: Maliga, Pal
/ APPLICANT: Svab, Zora
/ APPLICANT: Staub, Jeffrey
/ APPLICANT: Zoubenko, Oleg V.
/ APPLICANT: Allison, Lori A.
/ APPLICANT: Carrer, Helaine
/ APPLICANT: Kanevski, Ivan
/ TITLE OF INVENTION: DNA Constructs and Methods for Stably
/ TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
/ TITLE OF INVENTION: Expressing Recombinant Proteins Therein
/ NUMBER OF SEQUENCES: 47
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Dann, Dorfman, Herrell and Skillman
/ STREET: 1601 Market Street Suite 720
/ CITY: Philadelphia
/ STATE: PA
/ COUNTRY: USA
/ ZIP: 19103-2307
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/189,256A
/ FILING DATE: 31-JAN-1994
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:

/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/193,853
/ FILING DATE: 25-AUG-1993
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/518,763
/ FILING DATE: 01-MAY-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Reed, Janet E.
/ REGISTRATION NUMBER: 36,252
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (215) 563-4100
/ TELEFAX: (215) 563-4044
/ INFORMATION FOR SEQ ID NO: 19:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 140 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ US-08-189-256A-19

Query Match 47.3%; Score 86; DB 2; Length 140;
Best Local Similarity 90.2%; Pred. No. 4.7e-20;
Matches 92; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGAGATGAGAGCTCGTGGGATTGACGTAGGGGG 66
Db 17 GCTCCCCCGCGTTCATGAGATGAGATGAGAGCTCGTGGGATTGACGTAGGGGG 76

QY 67 CAGGATGGCTATATTCTCGGAGGAGACACACCGTTTTC 108
Db 77 CAGGATGGCTATATTCTCGGAGGAGAACTCCGGCGGAATTTC 118

RESULT 6
US-09-193-853-19
/ Sequence 19, Application US/09/193853
/ Patent No. 6388168
/ GENERAL INFORMATION:
/ APPLICANT: Maliga, Pal
/ APPLICANT: Svab, Zora
/ APPLICANT: Staub, Jeffrey
/ APPLICANT: Zoubenko, Oleg V.
/ APPLICANT: Allison, Lori A.
/ APPLICANT: Carrer, Helaine
/ APPLICANT: Kanevski, Ivan
/ TITLE OF INVENTION: DNA Constructs and Methods for Stably
/ TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
/ TITLE OF INVENTION: Expressing Recombinant Proteins Therein
/ NUMBER OF SEQUENCES: 47
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Dann, Dorfman, Herrell and Skillman
/ STREET: 1601 Market Street Suite 720
/ CITY: Philadelphia
/ STATE: PA
/ COUNTRY: USA
/ ZIP: 19103-2307
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/193,853
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/189,256
/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/518,763
/ FILING DATE: 01-MAY-1990
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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-193-853-26

Query Match          47.3%; Score 86; DB 3; Length 164;
Best Local Similarity 90.2%; Pred. No. 5e-20;
Matches 92; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 7 GCTCCCGCCGCGTCGTTCAATGAGATGAGTGAAGAGGCTCGTGGGATTGACGTGAGGGG 66
   |||||
Db 6 GCTCCCGCCGCGTCGTTCAATGAGATGAGTGAAGAGGCTCGTGGGATTGACGTGAGGGG 65
   |||||

QY 67 CAGGGATGGCTATATTTCTGGGAGGAGACCAACACGGTTTC 108
   |||||
Db 66 CAGGGATGGCTATATTTCTGGGAGGAGAACTCCGGCGGAATTC 107
   |||||

RESULT 9
US-09-635-132-16
; Sequence 16, Application US/09635132
; Patent No. 6620601
; GENERAL INFORMATION:
; APPLICANT: YAMAGUCHI, ISAMU
; APPLICANT: NAKASHITA, HIDEO
; APPLICANT: YOSHIOKA, KEIKO
; APPLICANT: DOI, YOSHIHARU
; TITLE OF INVENTION: METHODS FOR TRANSFORMATION OF PLANTS, TRANSFORMED
; FILE REFERENCE: 081356/0148
; CURRENT APPLICATION NUMBER: US/09/635,132
; CURRENT FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: JP 11-225832
; PRIOR FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: JP 11-225839
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 127
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-09-635-132-16

Query Match          47.1%; Score 85.8; DB 4; Length 127;
Best Local Similarity 97.8%; Pred. No. 5.2e-20;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCCCGCCGCGTCGTTCAATGAGATGAGTGAAGAGGCTCGTGGGATTGACGTGAGG 64
   |||||
Db 11 TTGCTCCCGCCGCGTCGTTCAATGAGATGAGTGAAGAGGCTCGTGGGATTGACGTGAGG 70
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QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
   |||||
Db 71 GGCAGGGATGGCTATATTTCTGGGAGCGA 99
   |||||

RESULT 10
US-09-011-336-58
; Sequence 58, Application US/09011336
; Patent No. 6472586
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Allison, Lori A.
; APPLICANT: Haskiewicz, Peter T.
; TITLE OF INVENTION: Nuclear-Encoded Transcription System in
; FILE REFERENCE: Rut-95-08031
; CURRENT APPLICATION NUMBER: US/09/011,336
; CURRENT FILING DATE: 1998-02-10
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; PRIOR APPLICATION NUMBER: PCT/US96/12671
; PRIOR FILING DATE: 1996-08-01
; PRIOR APPLICATION NUMBER: 60/002,136
; PRIOR FILING DATE: 1995-08-10
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 58
; LENGTH: 201
; TYPE: DNA
; ORGANISM: N. tobacco
US-09-011-336-58

Query Match          47.1%; Score 85.8; DB 4; Length 201;
Best Local Similarity 97.8%; Pred. No. 6.4e-20;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCCCGCCGCGTCGTTCAATGAGATGAGTGAAGAGGCTCGTGGGATTGACGTGAGG 64
   |||||
Db 3 TTGCTCCCGCCGCGTCGTTCAATGAGATGAGTGAAGAGGCTCGTGGGATTGACGTGAGG 62
   |||||

QY 65 GGCAGGGATGGCTATATTTCTGGGAGGGA 93
   |||||
Db 63 GGCAGGGATGGCTATATTTCTGGGAGCGA 91
   |||||

RESULT 11
US-08-189-256A-18
; Sequence 18, Application US/08189256A
; Patent No. 5877402
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/189,256A
; FILING DATE: 31-JAN-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/111,398
; FILING DATE: 25-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 161 base pairs
; TYPE: nucleic acid
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/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
US-08-189-256A-18

Query Match          46.9%; Score 85.4; DB 2; Length 161;
Best Local Similarity 98.9%; Pred. No. 7.9e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db 23 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 82

QY 67 CAGGGATGGCTATATTTCTGGGAGGGA 93
Db 83 CAGGGATGGCTATATTTCTGGGAGGGA 109

RESULT 13
US-08-189-256A-4
; Sequence 4, Application US/08189256A
; Patent No. 5877402
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/189,256A
; FILING DATE: 31-JAN-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/111,398
; FILING DATE: 25-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-189-256A-4

Query Match          46.9%; Score 85.4; DB 2; Length 165;
Best Local Similarity 98.9%; Pred. No. 8e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
US-09-193-853-18

Query Match          46.9%; Score 85.4; DB 2; Length 161;
Best Local Similarity 98.9%; Pred. No. 7.9e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db 23 GCTCCCCCGCGTTCATGAGATGGATGAGAGGCTCGTGGGATTGACGTGAGGGG 82

QY 67 CAGGGATGGCTATATTTCTGGGAGGGA 93
Db 83 CAGGGATGGCTATATTTCTGGGAGGGA 109

RESULT 12
US-09-193-853-18
; Sequence 18, Application US/09193853
; Patent No. 6388168
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/193,853
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/189,256
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
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Qy 7 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db |||||
Qy 1 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 60
Db |||||

Qy 67 CAGGGATGGCTATATTTCTGGGAGGA 93
Db |||||

61 CAGGGATGGCTATATTTCTGGGAGCGA 87

RESULT 14
US-09-193-853-4
; Sequence 4, Application US/09193853
; Patent No. 6388168
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/193,853
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/189,256
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-193-853-4

Query Match 46.9%; Score 85.4; DB 3; Length 165;
Best Local Similarity 98.9%; Pred. No. 8e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 7 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db |||||

1 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 60

Qy 67 CAGGGATGGCTATATTTCTGGGAGGA 93
Db |||||

61 CAGGGATGGCTATATTTCTGGGAGCGA 87

RESULT 15
US-08-189-256A-2
; Sequence 2, Application US/08189256A
; Patent No. 5877402
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Svab, Zora
; APPLICANT: Staub, Jeffrey
; APPLICANT: Zoubenko, Oleg V.
; APPLICANT: Allison, Lori A.
; APPLICANT: Carrer, Helaine
; APPLICANT: Kanevski, Ivan
; TITLE OF INVENTION: DNA Constructs and Methods for Stably
; TITLE OF INVENTION: Transforming Plasmids of Multicellular Plants and
; TITLE OF INVENTION: Expressing Recombinant Proteins Therein
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/189,256A
; FILING DATE: 31-JAN-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/111,398
; FILING DATE: 25-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/518,763
; FILING DATE: 01-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 168 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: not relevant
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-189-256A-2

Query Match 46.9%; Score 85.4; DB 2; Length 168;
Best Local Similarity 98.9%; Pred. No. 8.1e-20;
Matches 86; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 7 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 66
Db |||||

1 GCTCCCCCGCGTCTTCAATGAGATGGATAGAGGCTCGTGGGATTGACGTGAGGGG 60

Qy 67 CAGGGATGGCTATATTTCTGGGAGGA 93
Db |||||

61 CAGGGATGGCTATATTTCTGGGAGCGA 87

Search completed: January 6, 2005, 18:36:04
Job time : 86 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 6, 2005, 18:32:32 ; Search time 424 Seconds
(without alignments)
2462.927 Million cell updates/sec

Title: US-09-762-105A-14

Perfect score: 182

Sequence: 1 gsgctcgctccccgcgcgtc.....tgactggtggacaggtagc 182

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4293498 seqs, 2868903791 residues

Total number of hits satisfying chosen parameters: 8586996

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
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- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
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- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	93.6	51.4	1049	14	US-10-109-812-13 Sequence 13, Appl
2	92.6	50.9	2892	17	US-10-473-207-7 Sequence 7, Appl
3	90	49.5	130	14	US-10-109-812-1 Sequence 1, Appl
4	90	49.5	131	14	US-10-109-812-4 Sequence 4, Appl
5	90	49.5	4586	15	US-10-460-716-4 Sequence 4, Appl
6	87	47.8	1544	17	US-10-473-207-4 Sequence 25, Appl
7	87	47.8	2391	17	US-10-473-207-25 Sequence 1, Appl
8	85.8	47.1	179	18	US-10-737-251-1 Sequence 1, Appl
9	85.8	47.1	220	16	US-10-095-514-3 Sequence 3, Appl
10	85.8	47.1	233	18	US-10-737-251-38 Sequence 38, Appl
11	85.8	47.1	6477	16	US-10-377-134-63 Sequence 63, Appl
12	85.8	47.1	7652	17	US-10-680-824A-1 Sequence 1, Appl

13	85.8	47.1	8684	17	US-10-680-824A-2	Sequence 2, Appl
14	85.8	47.1	10011	17	US-10-680-824A-19	Sequence 19, Appl
c	85.4	46.9	1143	15	US-10-460-716-2	Sequence 2, Appl
16	85.4	46.9	1417	15	US-10-460-716-3	Sequence 3, Appl
17	85.4	46.9	2145	17	US-10-473-207-26	Sequence 26, Appl
18	84.8	46.6	144	10	US-09-940-925A-163	Sequence 163, App
19	84.8	46.6	144	10	US-09-941-193A-163	Sequence 163, App
20	83.8	46.0	105	15	US-10-241-872-9	Sequence 9, Appl
21	78.8	43.3	233	18	US-10-737-251-41	Sequence 41, Appl
c	78.4	43.1	8684	17	US-10-680-824A-2	Sequence 2, Appl
23	77.8	42.7	202	9	US-09-843-324A-1	Sequence 1, Appl
24	77.8	42.7	244	9	US-09-843-324A-2	Sequence 2, Appl
25	76.6	42.1	133	16	US-10-663-241-32	Sequence 32, Appl
26	74.6	41.0	234	18	US-10-737-251-42	Sequence 42, Appl
c	71	39.0	302	15	US-10-023-208-61	Sequence 61, Appl
28	71	39.0	5309	17	US-10-622-220-14	Sequence 14, Appl
29	71	39.0	5537	17	US-10-622-220-13	Sequence 13, Appl
c	70.8	38.9	1993	15	US-10-460-716-1	Sequence 1, Appl
31	70.8	38.9	1993	15	US-10-460-716-1	Sequence 1, Appl
c	70.8	38.9	7455	15	US-10-219-227-19	Sequence 19, Appl
33	70	38.5	89	14	US-10-109-812-41	Sequence 41, Appl
34	69.8	38.4	183	15	US-10-258-253-16	Sequence 16, Appl
35	69.2	38.0	193	18	US-10-476-413-8	Sequence 8, Appl
36	69.2	38.0	399	13	US-10-085-476-12	Sequence 12, Appl
37	68.8	37.8	97	10	US-09-897-778A-17	Sequence 17, Appl
38	67.6	37.1	217	18	US-10-748-055-7	Sequence 7, Appl
39	67.6	37.1	5018	9	US-09-813-718-9	Sequence 9, Appl
40	67.6	37.1	5018	16	US-10-240-532-9	Sequence 9, Appl
41	67.6	37.1	5018	17	US-10-240-527A-9	Sequence 9, Appl
42	66.8	36.7	112	18	US-10-737-251-28	Sequence 28, Appl
43	66.8	36.7	652	18	US-10-748-055-9	Sequence 9, Appl
44	66.8	36.7	1057	9	US-09-987-107-51	Sequence 51, Appl
45	66.8	36.7	1088	9	US-09-987-107-49	Sequence 49, Appl

ALIGNMENTS

RESULT 1

US-10-109-812-13
; Sequence 13, Application US/10109812
; Publication No. US20030088081A1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Cornelle, Sylvie
; APPLICANT: Lutz, Kerry
; TITLE OF INVENTION: High Level Expression of Immunogenic Proteins in the
; TITLE OF INVENTION: Plastids of Higher Plants
; FILE REFERENCE: Rutgers-00-0038 CIP
; CURRENT APPLICATION NUMBER: US/10/109,812
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: PCT/US00/25930
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/211,139
; PRIOR FILING DATE: 2000-06-13
; PRIOR APPLICATION NUMBER: 60/155,007
; PRIOR FILING DATE: 1999-09-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 1049
; TYPE: DNA
; ORGANISM: tobacco
US-10-109-812-13

Query Match 51.4%; Score 93.6; DB 14; Length 1049;
Best Local Similarity 75.0%; Pred. No. 5.5e-20;
Matches 117; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

Qy 1 GAGCTCGCTCCCCCGCGCTGTTCAATGAGATGAGAGCTCGTGGGATTGACGTG 60

Db 1 GAGCTCGCTCCCCCGCGCTGTTCAATGAGATGAGAGCTCGTGGGATTGACGTG 60


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; CURRENT FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: US/09/524,087A
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: PCT/US97/03444
; PRIOR FILING DATE: 1997-03-06
; PRIOR APPLICATION NUMBER: 60/102,716
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 4586
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-460-716-4

Query Match          49.5%; Score 90; DB 15; Length 4586;
Best Local Similarity 100.0%; Pred. No. 1.5e-18;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCTCGCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGAGGTG 60
    |||||
Db 3720 GAGCTCGCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGAGGTG 3661

QY 61 AGGGGGCAGGATGGCTATATTTCTGGGAG 90
    |||||
Db 3660 AGGGGGCAGGATGGCTATATTTCTGGGAG 3631

RESULT 6
US-10-473-207-4/c
; Sequence 4, Application US/10473207
; Publication No. US20040163145A1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Cornelle, Sylvie
; TITLE OF INVENTION: Integrases for the insertion of
; TITLE OF INVENTION: heterologous nucleic acids into the plastid genome
; FILE REFERENCE: 1594-RUT.01-091US
; CURRENT APPLICATION NUMBER: US/10/473,207
; CURRENT FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: PCT/US02/09537
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: 60/279615
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 1544
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: vector insert
US-10-473-207-4

Query Match          47.8%; Score 87; DB 17; Length 1544;
Best Local Similarity 90.3%; Pred. No. 9.1e-18;
Matches 93; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 6 CGCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 65
    |||||
Db 1394 CGCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 1335

QY 66 GCAGGGATGGCTATATTTCTGGGAGGAGACCAACGGTTTC 108
    |||||
Db 1334 GCAGGGATGGCTATATTTCTGGGAGCGAACTCCGGGCGGAATTC 1292

RESULT 7
US-10-473-207-25
; Sequence 25, Application US/10473207
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; Publication No. US20040163145A1
; GENERAL INFORMATION:
; APPLICANT: Maliga, Pal
; APPLICANT: Cornelle, Sylvie
; APPLICANT: Lutz, Kerry
; TITLE OF INVENTION: Integrases for the insertion of
; TITLE OF INVENTION: heterologous nucleic acids into the plastid genome
; FILE REFERENCE: 1594-RUT.01-091US
; CURRENT APPLICATION NUMBER: US/10/473,207
; CURRENT FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: PCT/US02/09537
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: 60/279615
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 2391
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid fragment
US-10-473-207-25

Query Match          47.8%; Score 87; DB 17; Length 2391;
Best Local Similarity 90.3%; Pred. No. 1.1e-17;
Matches 93; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 6 CGCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 65
    |||||
Db 12 CGCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGGG 71

QY 66 GCAGGGATGGCTATATTTCTGGGAGGAGACCAACGGTTTC 108
    |||||
Db 72 GCAGGGATGGCTATATTTCTGGGAGCGAACTCCGGGCGGAATTC 114

RESULT 8
US-10-737-251-1
; Sequence 1, Application US/10737251
; Publication No. US20040221338A1
; GENERAL INFORMATION:
; APPLICANT: Pal Maliga
; APPLICANT: Jon Y. Suzuki
; TITLE OF INVENTION: Plastid rRNA Operon PromoterElements for
; TITLE OF INVENTION: Construction of Chimeric Promoters for Transgene Expression
; FILE REFERENCE: 1594 RUT 03-083US
; CURRENT APPLICATION NUMBER: US/10/737,251
; CURRENT FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: 60/433,302
; PRIOR FILING DATE: 2002-12-13
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 179
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-10-737-251-1

Query Match          47.1%; Score 85.8; DB 18; Length 179;
Best Local Similarity 97.8%; Pred. No. 9.8e-18;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 64
    |||||
Db 91 TTCTCCCGCGCTGTTCAATGAGATGAGATGAGAGGCTCGTGGGATTGACGTGAGGG 150

QY 65 GCAGGGATGGCTATATTTCTGGGAGGGA 93
    |||||
Db 151 GCAGGGATGGCTATATTTCTGGGAGCGA 179

RESULT 9
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US-10-095-514-3
; Sequence 3, Application US/10095514
; Publication No. US20040093638A1
; GENERAL INFORMATION:
; APPLICANT: Sasaki, Yukiko
; APPLICANT: Sasaki, Yukiko
; APPLICANT: Madoka, Yuka
; TITLE OF INVENTION: Method for Promoting Fatty Acid Synthesis in a Plant
; FILE REFERENCE: 026350-072
; CURRENT FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: JP 2001-70,691
; PRIOR FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: JP 2001-300,038
; PRIOR FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 220
; TYPE: DNA
; ORGANISM: N. tabacum cv. Xanthi
US-10-095-514-3

Query Match
Best Local Similarity 47.1%; Score 85.8; DB 16; Length 220;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCGTCCCCCGCGTTCATGAGATGGAATGGAAGGCTCGTGGGATTGACGTGAGGG 64
DB 28 TTGCTCCCCCGCGTTCATGAGATGGAATGGAAGGCTCGTGGGATTGACGTGAGGG 87
QY 65 GGCAGGGATGGCTATATTTCTGGGAGGA 93
DB 88 GGCAGGGATGGCTATATTTCTGGGAGGA 116

RESULT 10
US-10-737-251-38
; Sequence 38, Application US/10737251
; Publication No. US20040221338A1
; GENERAL INFORMATION:
; APPLICANT: Pal Maliga
; APPLICANT: Jon Y. Suzuki
; TITLE OF INVENTION: Plasmid rRNA Operon Promoter Elements for
; FILE REFERENCE: 1594 RUT 03-083US
; CURRENT FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: 60/433,302
; PRIOR FILING DATE: 2002-12-13
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 233
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-10-737-251-38

Query Match
Best Local Similarity 47.1%; Score 85.8; DB 18; Length 233;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCGTCCCCCGCGTTCATGAGATGGAATGGAAGGCTCGTGGGATTGACGTGAGGG 64
DB 32 TTGCTCCCCCGCGTTCATGAGATGGAATGGAAGGCTCGTGGGATTGACGTGAGGG 91
QY 65 GGCAGGGATGGCTATATTTCTGGGAGGA 93
DB 92 GGCAGGGATGGCTATATTTCTGGGAGGA 120

RESULT 11
US-10-377-134-63/c
; Sequence 63, Application US/10377134
; Publication No. US20040096938A1
; GENERAL INFORMATION:
; APPLICANT: XU, Ming-Qun
; APPLICANT: EVANS, Thomas C.
; APPLICANT: PRADHAN, Sriharsha
; APPLICANT: COMB, Donald G.
; APPLICANT: PAULUS, Henry
; APPLICANT: SUN, Luo
; APPLICANT: CHEN, Lixin
; APPLICANT: GHOSH, Inca
; TITLE OF INVENTION: METHOD FOR GENERATING SPLIT, NON-TRANSFERABLE GENES
; FILE REFERENCE: NEB-219
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: 09/936,588
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: PCT/US00/14122
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/135,677
; PRIOR FILING DATE: 1999-05-24
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 63
; LENGTH: 6477
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Nucleotides 1-2482: E. coli vector pLITMUS28 (New
; OTHER INFORMATION: England Biolabs, Inc.)
; FEATURE:
; OTHER INFORMATION: Nucleotides 2493-6242: Nicotiana tabacum
; OTHER INFORMATION: Nucleotides 6243-8477: E. coli vector pLITMUS28
; OTHER INFORMATION: (New England Biolabs, Inc.)
US-10-377-134-63

Query Match
Best Local Similarity 47.1%; Score 85.8; DB 16; Length 6477;
Matches 87; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 TCGTCCCCCGCGTTCATGAGATGGAATGGAAGGCTCGTGGGATTGACGTGAGGG 64
DB 4016 TTGCTCCCCCGCGTTCATGAGATGGAATGGAAGGCTCGTGGGATTGACGTGAGGG 3957
QY 65 GGCAGGGATGGCTATATTTCTGGGAGGA 93
DB 3956 GGCAGGGATGGCTATATTTCTGGGAGGA 3928

RESULT 12
US-10-680-824A-1/c
; Sequence 1, Application US/10680824A
; Publication No. US20040133937A1
; GENERAL INFORMATION:
; APPLICANT: Boudreau, Eric
; APPLICANT: Gu, Weining
; APPLICANT: De Framond, Anic
; APPLICANT: Heifetz, Peter
; TITLE OF INVENTION: Plasmid Transformation
; FILE REFERENCE: 70149USNP
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: 60/418596
; PRIOR FILING DATE: 2002-07-10
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 7652
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
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